

Above, a group of ORGDP employees involved in the gas centrifuge project look on as Paul R. Vanstrum, Nuclear Division vice president for engineering and development, accepts a certificate of achievement on their behalf from Don Geston, representing the Division of Uranium Resources and Enrichment, DOE Headquarters.

William J. Wilcox Jr., technical director for the Nuclear Division, right, presents Don Geston, with one of the signs that had been posted around the Separation Systems Division facilities. The sign documents the actual date for start-up operations—15 days ahead of the scheduled date.

## Centrifuge test facility begins ahead of schedule

A new gas centrifuge uranium enrichment test facility began operation last month at ORGDP, 16 days ahead of schedule.

The Advanced Equipment Test Facility (AETF) is being used primarily to test the reliability of the first phase of production centrifuges and subsystems that will be used in the Gas Centrifuge Enrichment Plant to be constructed near Portsmouth, Ohio.

Ken Cook, operations manager for the AETF, said a "massive effort was required on the part of many Nuclear Division organizations, particularly the coordination between Separation Systems and Engineering." Cook said it was one of the "smoothest" start-ups, despite the fact that the group was working with a very tight schedule.

Brief ceremonies marking this major milestone were held May 31 inside the AETF where about 150 employees gathered. Certificates of achievement were presented to various participants who were involved in bringing the AETF "on system."

Paul R. Vanstrum, Nuclear Division vice president for engineering and development, accepted a certificate of accomplishment on behalf of hundreds of Nuclear Division employees involved in the \$12 million project.

William J. Wilcox Jr., technical director for the Nuclear Division said, "The successful completion of the AETF was accomplished by the efforts of many teams of employees. Some of the key team leaders were Ken W. Cook, SSD Operations; Dave L. Lennon, Development Support Facilities; W. Darryl Reed, SSD Engineering Services; Bill H. Bramblett, Development Maintenance; Bryant B. Bowden and Ed T. Stickle, Design Engineering; and Bob M. Schilling, CPL Operations."

The AETF is nearby the Centrifuge Plant Demonstration Facility (CPDF) that is under construction. This facility, to be ready in 1981, will be a smaller version of the Portsmouth plant and will test out equipment that will be housed in the \$4.2 billion plant.



KARATE—ORGDP employees, Fredrick Brabson, left, and John Cobbs practice Karate kicks. Brabson in his "Different Drummer" article on page 4 writes about the philosophy behind this sport.

## Nearly 70% now buying U.S. bonds

A total of 2,828 new participants are added to the payroll deductions savings purchase of U.S. Savings Bonds, as the 1978 drive ended June 9. This means 69.7 percent of all employees now save through this simple, effortless method.

Although the goal of 71 percent was not attained, Bob Sherlin, general chairman for the drive, deemed it a success. "I believe the fruits of our efforts will be more evident next year as the Nuclear Division should be in a more favorable position to attain this year's goal of employee participation," he said.

ORGDP led the four plants with almost 80 percent of all employees on payroll deductions; Paducah shows 78.3; Y-12 76.2; and ORNL shows 48.4. With 19,276 persons on the four payrolls, a total of 13,439 are now conveniently saving money by the purchase of Savings Bond through payroll deductions.





**SECRETARY-OF-THE-YEAR**—Betty Lester was chosen as secretary of the year by the Paducah-Kentucky Lake Chapter of the National Secretaries Association. She acknowledges the honor as Clyde C. Hopkins, left, looks on. Hopkins, now executive director of ORNL, was former manager of the Paducah Plant.



**NEW PRESIDENT**—Mary Ellen Pfost accepts the gavel to become president of the Kentucky Division of the National Secretaries Association at the annual state convention met in Paducah. Passing the gavel is Maudie Buckley, right, former president; as Frances B. Jakes of Murfreesboro, Tenn., looks on at left. Jakes is past international president of NSA.

# Paducah secretaries receive top NSA honors

Betty Lester and Mary Ellen Pfost, secretaries at the Paducah Plant, recently gleaned honors from the Kentucky Division of the National Secretaries Association.

Lester, a CPS, was named secretary of the year by the Paducah-Kentucky Lake Chapter during Secretary's Week. She is secretary to Clayton Zerby, newly appointed Paducah Plant manager.

She is a graduate of Draughn's Business College and has worked in several departments during her 21 years at PGDP. She was promoted to her current position in 1963.

A member of NSA since 1968, Lester has served in numerous leadership roles such as chapter delegate to the international convention and chapter president for 1975-76. She has also served on the general secretary program advisory committee at Paducah Community College.

She and her husband, Sid, live on Michigan Avenue, Paducah.

Pfost, also a CPS, is secretary to H. Dale Bewley, Technical Services Division superintendent at Paducah.

She is a charter member of NSA and served as the 1974-75 president. She has previously held the office of state vice president and president-elect as

well as various chapter office, and has also held memberships on ad hoc international committees. Pfost was the chapter's first secretary of the year in 1967 and was named Kentucky Division secretary of the year in 1968.

Her civic contributions include life membership in the National Congress of Parent-Teacher Association for her work with children and youth in the area's school system. She was elected to the Kentucky Chamber of Commerce Hall of Fame for her efforts in having Paducah named an "All Kentucky City." She was also instrumental in forming Paducah's first Future Secretaries Association of which she served as chairman.

Pfost is married to W. T. Pfost. They live on Hendron Road in Lone Oak, and have three sons, Thomas, David and Michael.

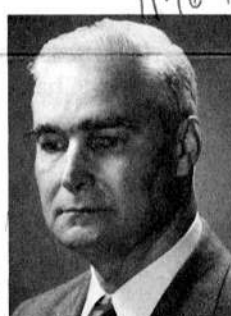
## patent granted...

To John H. Cantrell Jr., Ronald E. Goans and F. Bradford Meyers, all of ORNL, and Dr. Harry D. Stambaugh, a contractor from Plastic Surgery Associates, Louisville, Ky., for "Ultrasonic Technique for Characterizing Skin Burns."

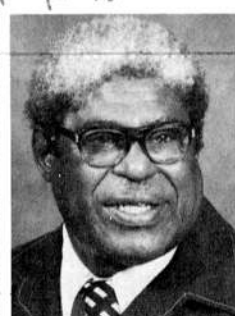
## retirements...



**Samuel J. Amburn**  
Laboratory Protection  
ORNL  
34 years service



**Julius C. Bennett**  
General Engineering  
ORNL  
32 years service



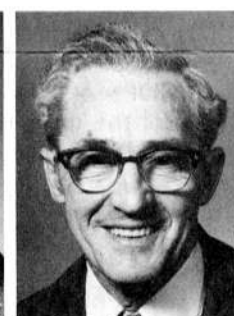
**Jim H. Bohanon**  
Y-12 Building Services  
26 years service



**Adrian W. Connor**  
Paducah  
Guard Department  
13 years service



**James H. Davidson**  
Analytical Chemistry  
ORNL  
32 years service



**Dallas H. Fuller**  
Maintenance, ORGDP  
30 years service



**Merel L. Garrison**  
Y-12 Research Services  
31 years service



**Ralph E. Graham**  
M-Wing Shop, Y-12  
30 years service



**Lois A. Greene**  
Employee Relations  
ORGDP  
31 years service



**Ray H. Henry**  
Plant and Equipment  
ORNL  
22 years service



**Claude E. Jones**  
Operations  
ORGDP  
34 years service



**Ralph H. Jones**  
Plant and Equipment  
ORNL  
31 years service



**Clyde H. Roberts**  
Biology  
ORNL  
35 years service



**Woodrow V. Ledigh**  
Paducah  
Fire Department  
27 years service



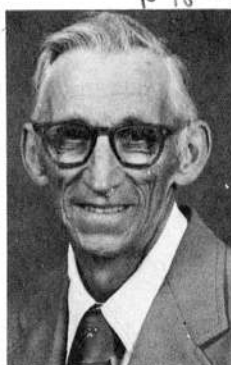
**Wallace G. Hylton**  
Plant and Equipment  
ORNL  
28 years service



**Lyle H. Runge**  
Computer Sciences  
ORGDP  
32 years service



**Paul E. Woody**  
General Can  
Fabrication Shop Y-12  
17 years service



**Thomas E. Stooksbury**  
Y-12 Materials Shop  
17 years service

## patent granted...

To Ernest L. Long, Kenneth H. Valentine and Melvin G. Willey, all of ORNL, for "Nuclear Fuel Microsphere Gamma Analyzer."

To Walter J. Lackey Jr. and John D. Sease, both of ORNL, for "Process to Minimize Cracking of Pyrolytic Carbon Coatings."

Henry D. Cochran Jr., ORNL, for "Method of Measuring the Mass Flow Rate of a Substance Entering a Cocurrent Fluid Stream."

## safety scoreboard

Time worked without a lost-time accident through June 15:

Paducah.....	328 Days	4,176,000 Man-Hours
ORGDP.....	70 Days	2,294,800 Man-Hours
Y-12 Plant.....	64 Days	2,049,000 Man-Hours
ORNL.....	151 Days	3,543,077 Man-Hours



## question box...

If you have questions on company policy, write the Editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

### Job bidding

**QUESTION:** A weekly employee recently retired from the ORGDP Maintenance Division, Shops Services Department. Another weekly person was brought in to start learning the job before the other person retired. The job was put up for bid, but the employee who has been working in the job will be the one chosen by the department head, as he has already stated so. Why should employees try to better themselves and bid on these jobs when someone else has already been selected?

**ANSWER:** You have either misunderstood exactly what happened or were misinformed regarding this vacancy. When this job vacancy occurred as a result of one employee's retirement, the job was bid under the Job Opportunity System procedure. No one was brought in to train on the job between the time of one employee's retirement and another employee being put in the job through the bidding process. There was no preselection. The successful bidder was a long-term employee from another division who had approximately 25 years of related work experience.

### First class mail

**QUESTION:** Why was Union Carbide's annual report for 1977 mailed first class? I received mine last week and was upset to see \$1.01 postage stamped on it! The proxy vote could have been included in a first-class envelope outside and the annual report mailed by bulk rate.

**ANSWER:** The annual report should have been mailed at the bulk rate. It was sent first class through error. We appreciate your calling this matter to our attention. Necessary steps have been taken to prevent this from happening in the future.

### Microwave ovens

**QUESTION:** What is policy on microwave ovens, or other means of warming food, in K-1004-L, an area requiring shift work around the clock, sometimes manned by only one person where leaving the area is impossible?

**ANSWER:** There are many lunchrooms and canteens in the ORGDP Plant. Most of the large canteens have, in addition to a variety of vending machines, a microwave oven provided by Industrial Vendors, Inc., the vending machine contractor. Microwave ovens are expensive to purchase and require regular maintenance and safety inspections. Because of this, they are located only in those areas where the revenues are sufficient to justify them.

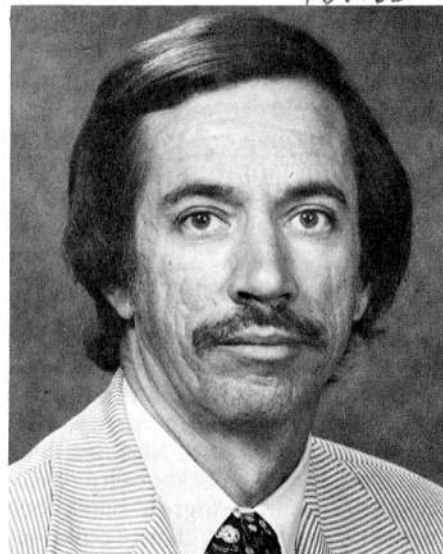
There is no microwave oven in the K-1004-L lunchroom. There are, however, appliances for warming food. These include a small oven, a hot plate and a toaster.

### K-1008-C air conditioning

**QUESTION:** Why won't the air conditioner in Building K-1008-C at ORGDP work? I got a candy bar from one of the vending machines, and it had melted.

**ANSWER:** We think you are referring to the lunchroom in Building K-1008-C. The refrigerant compressor on this five-ton unit failed to start up on April 3. Because this was one of the first hot days in 1978, many of the dual-purpose units were being switched from heating to cooling. (ORGDP has 480 of these units, plus an additional 500 window units which were being put into service at that time.) Due to the heavy work load, this particular unit was out of operation for about eight days.

## Development names Bieber, Koger, Kollie



John W. Koger

Three organizational changes have been announced in the Development Division at Y-12. Charles R. Bieber has been named group leader of the Metallurgy Joining Group; John W. Koger, superintendent of the Metallurgy Department; and Thomas G. Kollie, group leader in the Metallurgy Engineering Group.

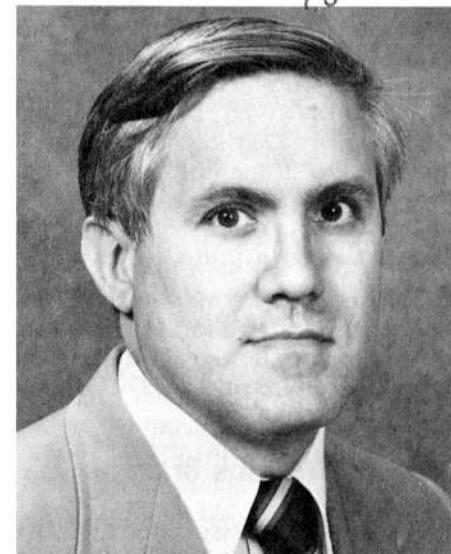
Bieber joined Union Carbide in 1966 after working with Southern Research Institute, Diamond Chain Company and the U.S. Bureau of Mines. He has a B.S. from Purdue University and an M.S. from the University of Alabama. He is a native of Aurora, Ill.

Married to the former Jeanette Bryan, he lives at Route 3, Clinton. The couple has two children, Michael and Jeffry.

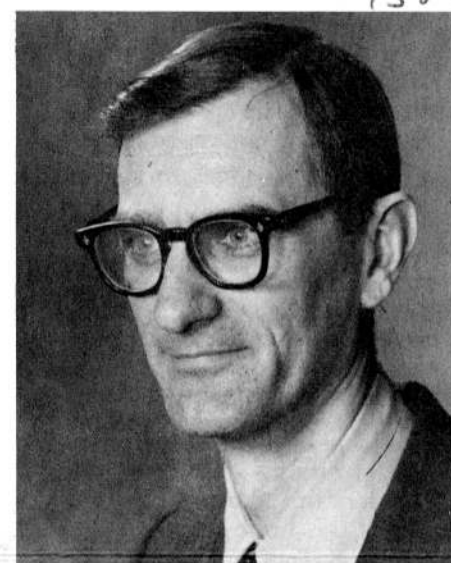
Koger, a native of Florence, Ala., attended Georgia Tech as a co-op student, and received a B.S. in chemical engineer and an M.S. in metallurgy. He received his Ph. D. in metallurgical and materials engineering from the University of Florida. He joined Union Carbide in 1967.

Mrs. Koger is the former Rosemary Hampton, and the couple lives at 933 Suwannee Road, Knoxville. They have two children, Karen and John Jr.

Kollie, a native of New Orleans, holds a B.S. degree from Georgia Tech in ceramic engineering; and an M.S. and Ph.D. in metallurgical engineering from the University of Tennessee. He first joined Union Carbide in 1959 in the Metals and Ceramics Division at ORNL; worked in the Instrument and Controls Division; then transferred to Y-12 in 1976.



Thomas G. Kollie



Charles R. Bieber

Mrs. Kollie is the former Mary Hamby, and they live at 117 Oklahoma Avenue, Oak Ridge. They have two children Thomas Jr. and Theresa.

## wanted...

### Y-12 PLANT

**RIDERS FOR VAN POOL** from Rockwood to all portals, straight days. Terrence Brewster, phone 3-5445, home 354-1615.

**WILL FORM CAR POOL** from Maryville to East Portal, straight day. Gary Russell, plant phone 3-5471, home phone Maryville 983-4812.

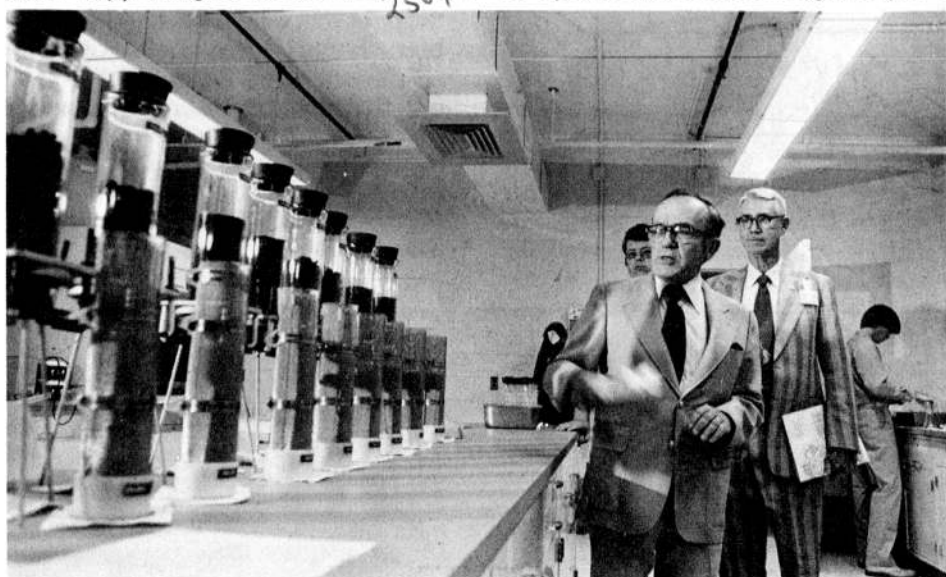
**RIDERS** from Norwood area, Merchants Road, Cherokee Ridge, or Cherrybrook subdivision, via Clinton Highway to any portal, straight day. J. F. Baker, Plant phone 3-7176, home phone Knoxville 947-3396.

(Please see page 8)

### Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
March 78	14.5090	39.4377	7.4310
April 78	14.6133	40.4596	8.2159
May 78	14.7179	40.3989	8.3523

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 8.85% for 1978. Union Carbide stock values are the average cost of stock purchased during the month plus brokerage charges. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.



**MEDIA PREVIEW-**Stanley I. Auerbach, director of ORNL's Environmental Sciences Division, describes research being conducted in the "coal lab" to local news media. The media were provided information and given tours recently of the new \$8.8 million Environmental Sciences Laboratory and Controlled Environment and Animal Building, the first facilities in the DOE complex designed and built specifically for environmental research. The Division staff moved into the new facilities in April.



## A different drummer...

# 'Martial artists set high goals—in life, ring'

Editor's note—Fredrick "Butch" Brabson is an electrical mechanic in ORGDP's Fabrication and Maintenance Division. He has been a Nuclear Division employee for seven years. Previously, he was a student at the Electronic Computer Programming Institute, Knoxville.

Brabson is a member of the Isshinryu Karate Association and the Harold Long School of Karate. He and his wife, Delores, live at 3912 Oakland Drive, Knoxville.

### By Fredrick Brabson

Many people associated with the world of martial arts find them mentally and physically rewarding. In fact, some employees at ORGDP have been kicking, chopping and punching their way to a level of perfection in the art of karate.

The Isshinryu karate style seems to be the most popular among ORGDP participants. Isshinryu is a style of karate which emphasizes equal development of all parts of the body, as opposed to concentrating only on the development of kicks and hand techniques as certain other karate styles do.

Four years ago, I teamed up with some local black belts to work toward a challenging goal—to become proficient in the art of karate and to convert this hobby into a productive organization within our communities. Only after several years of hard work in the dojos (workout area) of the Harold Long School of Karate, did we achieve the vital part of our goal—black belt instructors working effectively in the community.

PH 78-2210

The Eastside YMCA in Knoxville serves as a meeting place for what I consider a great group of people, many of whom work at ORGDP. John Cobb, Operations Division; Cecil Clark, Fabrication and Maintenance; William Faulkner, first degree black belt, Operations Division; Willie Scudder, Equipment Test and Inspection—a convert to Isshinryu from the Gung Fu style; and I meet there with others to perfect our karate techniques. Teaming up to offer an outstanding program in karate are instructors Melbert Lee—third degree black belt; Willie Wilson—second degree black belt; Van Brabson and William Faulkner—first degree black belt; and I.

Karate generally has been considered a sport of violent physical contact. And this is sometimes true. But the art of karate also goes beyond the physical yelling, kicking, chopping and punching. A person must prepare himself/herself mentally, as well. This is the part of karate that I consider to be so important, simply because mental preparedness is a vital part of a person's well-being.

### 'One has to prepare mentally as well.'

I believe that while physically and mentally preparing yourself to deal with an opponent in the ring, you are also preparing for challenges in the ring of life. In a sense, the ring represents our complex society and the opponent represents individuals that make up that society therefore, this preparation is important when

dealing with complex situations that life offers. The way we handle these situations determines whether we become an asset or a liability to our communities. That ring which a student enters in the dojo is the same ring that everyone wakes up in every morning, consisting of a variety of challenging situations. Being able to coordinate mind and body to function as one is a demanding standard to set for oneself.

### '...helping others bring out the best in themselves.'

My greatest hobby is my productivity. And I feel that through karate I can make a significant contribution to my community. Being a black belt doesn't make a person great, but being able to attain goals that you set for yourself and helping others bring out the best in themselves makes a person feel great.

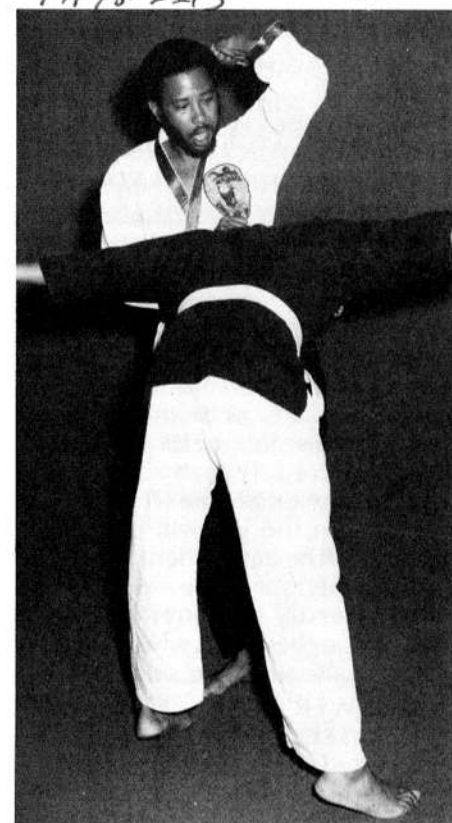


Working with children, young adults and friends is a very rewarding experience for me.

Recent tournament competition has also been interesting. Our students have captured 11 trophies in three tournament trips. Last year Faulkner was riding high at the "Battle of Nashville," while this year Clark tasted sweet victory at the "Athens Open Tournament." Iris Wilson, an Austin East High School student, took first place in the "Chang's Taekwondo Open

### 'My students are my trophies.'

Tournament" in Knoxville. These, along with other student accomplishments, represent how contagious our productivity has been.

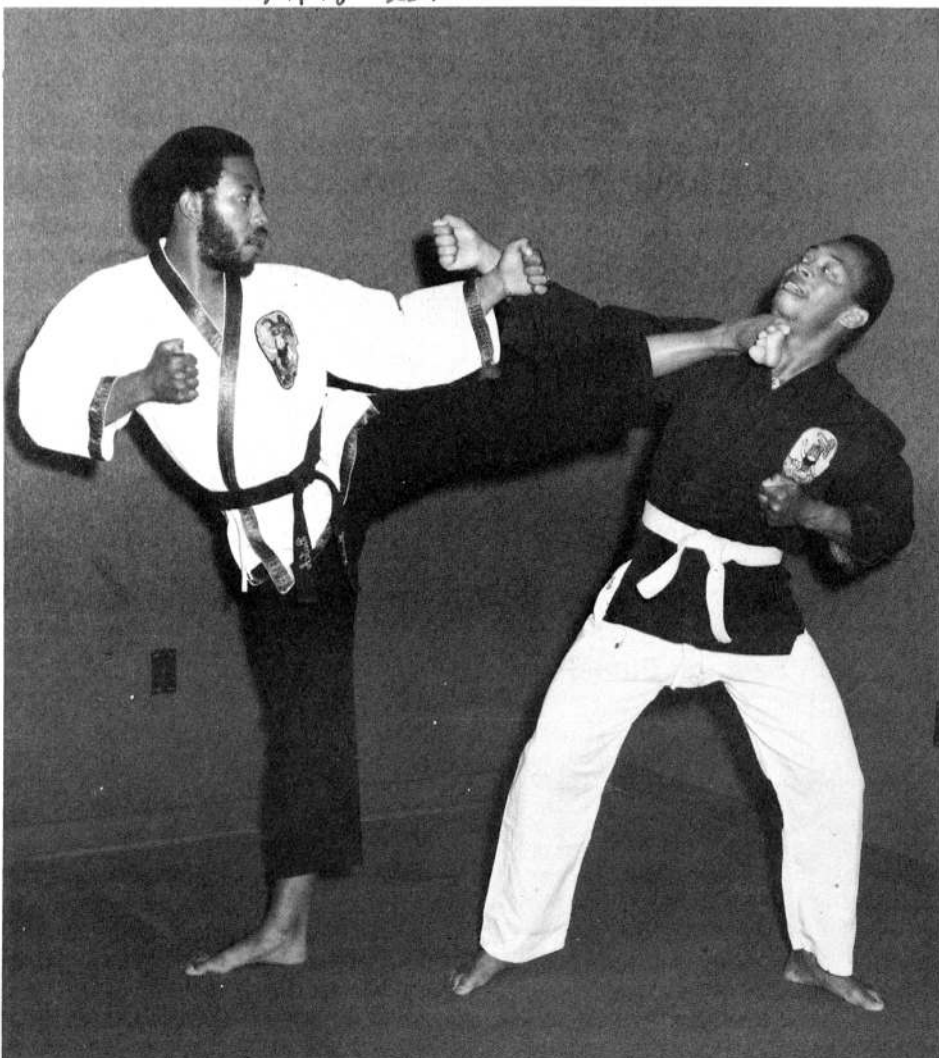


Most people look for trophies on shelves or in trophy cases, but I consider my students to be my trophies. Knowing that I can help them attain their goals pleases me more than any certificate or piece of metal possibly could. Helping someone bring out the best in themselves or getting a kid off the streets and into something productive is a challenge that I readily accept.

### '...through karate I can make a contribution to my community.'

It is through karate and God that I can step forward and be a pacesetter in the improvement of our community. Dedicated martial arts students across the country are discovering something real about themselves. It is reality that challenges them to be what they want to be, to reach high goals and, most importantly, to respect their fellow man. A student once asked me if I thought that he would ever become a black belter of the quality of karate artists whom he admired. My reply was that only he knew the answer to that question. I believe an individual should set his/her own goals and then seek help to accomplish those goals.

True martial artists set high goals for themselves in life, as well as in the ring.



Brabson gives Cobbs the foot

## NUCLEAR DIVISION NEWS

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PH78-2151



ONE FOR 3,600—Phyllis Shrader, Payroll Department at ORGDP, compares one check to the 3,600 it replaces in a new electronic funds transfer program where payroll checks are transferred to the bank in one lump sum. The program will enable Payroll to substantially reduce the number of pay checks written annually.

## Mole hills out of mountains result in new payroll system

Another step leading to the "cashless society" has been taken by the Nuclear Division Payroll Department located at ORGDP.

Gary Riser, manager of the General Accounting Division, says that by going to electronic funds transfer, the Nuclear Division is able to substantially decrease the number of payroll checks sent out to exempt employees who have their checks mailed directly to their own banks.

Until recently, about 3,600 payroll checks were sent to banks designated by the exempt employees. In May, one check for several million dollars was sent to the Tennessee Clearinghouse in Nashville along with a computer tape which contains the necessary information for crediting an employee's bank account.

The Tennessee Clearinghouse then transfers the money and computer information to the employee-designated local banks which mail deposit statements to the employee. The Nuclear Division still sends the employee a payroll stub.

The Nuclear Division last November became the first private corporation in Tennessee to transfer the net amount of an employee's

earnings directly to his bank via electronic funds transfer.

Riser says by September, another 1,500 exempt employees will be added to the system. Plans are being made now so that some 3,800 weekly paid employees can be paid in a similar manner by the second quarter of next year. A single check will be used for the weekly employees who designate a bank.

In addition, plans are being made so that the Paducah exempt employee's deposits can be made to the Kentucky Clearinghouse during the first quarter of 1979.

About one-half of Nuclear Division employees have taken advantage of having their deposits made directly to their local banks.

Riser said, "When the weekly and Paducah exempt employees are added in 1979, we will be able to reduce the total number of annual payroll checks by some 220,000 down to a total of 36. There is less paperwork involved, less chance of bank error and a great many man-hours are saved in the computer operations. We hope the rest of our employees will switch to the automatic banking deposits. The savings would be even greater."

## division death...

Ann S. Klein, a technical librarian in ORNL's Information Division, died June 11 in a Knoxville hospital.



Mrs. Klein

A Carbide employee since 1957, Mrs. Klein worked all 21 years in the library at ORNL. She was a member of the Data Processing Management Association.

Immediate survivors include her daughter, Marcia; and sons, Leslie and Roger. The family requests that any memorials be sent as gifts to the American Cancer Society.

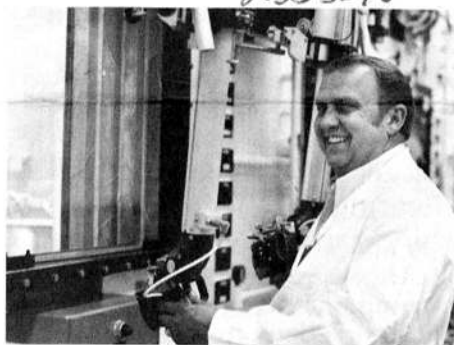
Funeral services were held at the Temple Beth El Synagogue with burial in the New Jewish Cemetery, Knoxville.

## Firewood cuttings June - November

Firewood cuttings on the Oak Ridge controlled area begin early this year. The first cutting in designated areas will be held Friday and Saturday, June 23, 24. Another cutting is set for July 21, 22. Subsequent cuttings will be held once a month through November.

Low-grade hardwood trees will be available to stock local residents with firewood for the coming winter months, according to Dennis Bradburn, supervisor of the forest management program.

Persons interested in participating should meet Friday or Saturday morning at the intersection of the Oak Ridge Turnpike and Highway 58,



## Tatum to supervisor

The Operations Division has announced the promotion of William G. Tatum to supervisor of the cell area of Building 3047.

Tatum, a 26-year veteran of Union Carbide, was initially employed at ORNL as an operator and in 1952 became a senior laboratory technician, a position he held until his recent promotion. Before joining Union Carbide, he was employed by the L&N Railroad.

A native of Etowah, he attended Tennessee Wesleyan College. He and his wife, Marilyn, have one child, Stephen. The Tatums reside at 512 West 7th Avenue, Lenoir City.

between 8 and 9:30 a.m. Participants must also bring their own cutting equipment.

Members of the forest management staff will accompany groups to the cutting areas. After firewood has been cut, road access will be provided for private vehicles to remove it from the reservation.

Cutting activities will end promptly at 4 p.m. each day. Due to safety regulations, children under 12 will not be allowed in the cutting areas.

Cutting is by permit only, and additional information may be obtained from Bradburn, extension 3-1266.

## Summer series starts June 27

The ORNL Summer Seminar Series—a program of summer lectures for visitors, summer employees and regular staff—begins Tuesday, June 27, at 3 p.m. in the East Auditorium, Building 4500 North. Murray W. Rosenthal, associate director for Advanced Energy Systems, will speak on "Energy Sources, Past, Present and Future."

Second in the series of six Tuesday lecturers will be James L. Epler, head of the comparative mutagenesis program, ORNL Biology Division. He

will speak July 11 in the East Auditorium, Building 4500 North, on the topic "Health Effects Research on Energy Related Technologies."

Beginning with the July 11th talk, lectures will be held on consecutive Tuesdays at 3 p.m. in the East Auditorium.

The ORNL Summer Seminar Series originated in the mid-70's because of the growing influx of summer students working at the Laboratory. Yvonne Lovely, Information Division, coordinates this program.

## Information employees take first-place STC honors



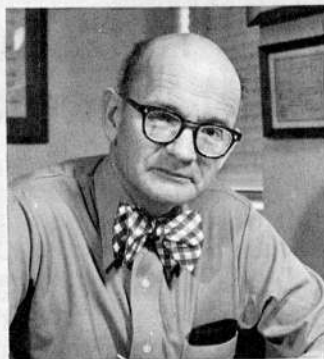
Pictured here are four ORNL Information Division employees who were first-place winners from East Tennessee in the publications and art competition at the 25th International Technical Communication Conference. Barbara Lyon, left rear, and Helen Raaen, right front, won a joint award for the **ORNL Review**. Ann Ragon, left front, is editor of the award-winning newsletter of the East Tennessee Chapter, Society for Technical Communication. Charles Tucker, right rear, won the top award for color photography.



Medicine Chest...

# Vasectomy?

by T. A. Lincoln, M.D.



(Editor's Note: Dr. Lincoln alternates his regular column with "Medicine Chest," where he answers questions from employees concerning health matters. Questions are handled in strict confidence, as they are handled in our "Question Box." Address your question to "Medicine Chest," Nuclear Division News, Building 9704-2, Mail Stop 20, or call the news editor in your plant.)

**QUESTION:** "How long has the vasectomy been used? I know there are no psychological fears for my husband (we are in our early 40's and have all the children we want), but are there possibilities of physical problems after such surgery? You treated this in an article a year or so ago, but you failed to mention the above."

**ANSWER:** Approximately 750,000 vasectomies are now performed each year in the United States. This simple surgical procedure for sterilization of the male began about 75 years ago. It increased in popularity when people became concerned about the exploding population, the costs of rearing and educating children and the hazardous side effects of the "pill" contraceptive in women. The operation is performed under local anesthesia and the patient is usually not admitted to the hospital.

The frequency of postoperative wound complications depends on the skill of the surgeon and possible predisposing conditions in the patient. In one series of 242 consecutive vasectomies performed in a large hospital in New Hampshire, 18 (7.4 percent) had wound complications, six (2.4 percent) of which were considered extensive. It is likely that most surgeons have a total complication rate of about five to ten percent and extensive complication rate of about one to three percent. Recovery is usually complete. Disability is seldom more than a week unless the complication is extensive.

### Occasional infections

The most common complication is bleeding (hematoma) into the wound. It may cause extensive swelling and disruption of the suture line. Occasionally, wound infections occur. The scrotum is an extremely loose sac which allows the slightest amount of residual bleeding to continue. There is no adequate way to apply a compression dressing to prevent postoperative bleeding.

Some patients will experience testicular discomfort for a few days, which may be congestive in nature due to the blockage of the normal exit path of the sperm and the mild interference in the local circulation.

Concern has been expressed about the development of autoantibodies (immune bodies formed by individuals against their own tissues) due to the retention and resorption sperm cells. About 55 percent of men will have anti-sperm antibodies within nine months of the operation.

No disease has been linked to these antibodies, but they may play a role in the cessation of the production of sperm.

In a vasectomy the tube, called the vas deferens, which transports the sperm out of the testicle, is cut on each side. A piece about one to two centimeters long is removed and cut ends are tied, sometimes after having been folded over. If some years later the patient wants to try to reestablish his fertility, the ends can be sewn back together. The operation is often a success from an anatomical standpoint, but the pregnancy rate is less than 25 percent. Either something has happened to the basic sperm production mechanism, or the ones which continue to be formed are defective.

In a large study in New Zealand, more than 900 men who had had a vasectomy from three months to six years previously were tested for seven different autoantibodies. The investigators found no clinically significant increase in autoantibodies in the vasectomized group when compared with matched controls. No autoimmune disease could be related to the vasectomies.

### Repairs possible

Pregnancy is one complication which should not be overlooked! In rare instances tubes will grow back together again. It is an extremely unlikely possibility, but some conservative surgeons recommend performing an additional sperm count six to nine months after the operation to be sure no sperm are beginning to sneak through.

It is absolutely necessary to prove that sterility has been achieved before abandoning the use of contraceptives. Sperm remaining in the tube beyond the place it was cut, may take a long time to get out. At the University of Manchester in Great Britain, sperm counts are obtained at 12 and 16 weeks after the operation. They must be completely free of sperm before the use of contraceptives can be stopped. If sperm are found, specimens are examined at four-weekly intervals until two consecutive negative counts have been recorded.

A vasectomy should not have an adverse effect on potency. Occasionally, men who are anxious may think such has occurred, but evidence does not reflect that a vasectomy affects hormone production. Many couples, relieved of the concern about having children, experience an increase in sexual drive.



**PLAN CAMPAIGN**—United Way officials for 1978 begin preliminary plans for the fall campaign. "Thanks to you... it works... for all of us" is the theme for this year's drive. From left are Jim Sykes, Y-12; Dean Waters, general chairman; Lynn Calvert, ORGDP; Stan Auerbach, ORNL; and Bill McWhorter, assistant general chairman. Dale Bewley, Paducah, was not present for the photograph.

## Dean Waters organizes plants for fall United Way campaign

"Thanks to you... it works... for all of us." Employees at the three Oak Ridge Nuclear Division plants will be seeing and hearing that United Way slogan a lot this fall when the annual fund-raising campaign kicks off on September 15.

This year's campaign actually started months ago thanks to a small group of dedicated employees, the 1978 United Way Campaign General Committee. The committee has been working on plans and preparations since early April. The drive will run through October 20.

General chairman of this year's drive will be Dean Waters, deputy director of Separations Systems at ORGDP, and a 17-year Nuclear Division employee.

Assistant general chairman is William McWhorter, program manager of Manufacturing and Process Development at ORGDP. He has been with the Nuclear Division for 18 years.

### Plant Chairmen

This year's installation chairmen are:

- **Lynn Calvert**, ORGDP, 12 year Nuclear Division employee, is Plant Protection Department head. He was co-chairman for ORGDP's 1977 United Way campaign.

- **Stan Auerbach**, ORNL, is director of the Environmental Sciences Division, and is a 24-year Nuclear Division employee. He was the assistant installation chairman last year and has been a past division chairman.

- **Jim Sykes**, Y-12, Materials and Services Division superintendent, has 33 years service with the Nuclear Division. He has been a past division chairman and was last year's plant co-chairman.

- **H. Dale Bewley**, Technical Services Division superintendent at Paducah, will head the drive there. He joined Union Carbide in 1967 after working with General Motors and the Stellite Division of UCC. He was co-chairman for the drive in Paducah last year. Bewley will announce the drive's date later.

The 1978 general committee also includes: Ray Williams, treasurer; Charlie Williams, computer management; Jack Holt, computer reports; Bob DeBinder, payroll auditor; John Shumpert, payroll coordinator; Tony Medley, campaign documentation; Gary Hilton, campaign materials; Joe Gollehon, publicity; and Jerry Dunn, Harry Brown and Marion Randolph, general staff members.

In last year's campaign, Nuclear Division employees pledged \$669,371—nearly \$65,000 over the Division's goal of \$605,000. About 90 percent of the nearly 17,000 Oak Ridge employees participated in the drive. Almost 60 percent contributed needed share amounts or more.

next issue. . .

The next issue will be dated July 6. The deadline is June 27.



# Deerhunter not necessarily a deerslayer . . .



By H. W. Bertini

Part 3

A good deer hunter will generally scout a likely area in order to "cut sign." That is, he will walk through the area in order to intersect (cut), or discover, some visible manifestation (sign) of the deer's recent passage. In this case the use of the vernacular fits in nicely with our national policy of energy conservation. It saves a lot of hot air.

The signs of deer tracks and droppings are of minimum importance since they are made by both does and bucks (a fantastically brilliant conclusion), and it is literally impossible to distinguish these signs between does and bucks. More important are the signs of bucks, is the antler marks bucks leave on the trees while removing the velvet from their horns or sometimes from simply attacking the trees with their antlers because they are feeling their oats or practicing for fighting other bucks during the mating season.

... "Our story gets a little X-rated here. . ."

Another excellent sign is that of buck scrapings, and here our story gets X-rated for a while. During the rut, the bucks scrape the leaves off the ground with their hoofs leaving a small bare area a few feet in diameter. Then they urinate on the bare ground and move off. They can have a dozen or so of these scrapings. When a doe comes upon one of the bare areas, if she cares, she will also urinate on the spot and then move on.

A buck will continually make the rounds of his scrapings, and when he scents the doe's contribution, he tracks her and they mate. I think you will agree that this kind of behavior will hardly ever be called your *haute* romance, but the deer don't seem to mind.

Appearances are sometimes deceptive and what I prefer to believe is that the following is taking place. I must use the language of endearment and the language of the CB'er to describe this (a totally incongruous combination):

When the doe finds the scraping she sends out a demure message; "Breaker, breaker, this is Tiny Hoofsy. I read your invitation and I'm interested, are you?" and then she continues on.

Upon coming to the scene, the majestic buck, reads the message, loses his cool, and sends out, "I read you loud and clear and I'm on my way with barrels open and the pedal to the metal," and he gallops in pursuit. This is a dangerous time for the buck—really—for he becomes oblivious to his surroundings.

To continue the story, the nearby still-hunter, bored stiff from hours of waiting, is in the middle of an enormous ego fantasy that has him located in New York where, Superman-like, he is leaping from skyscraper to skyscraper rescuing people from the Towering Inferno. He sees the deer and wonders, "What in the heck is a buck doing on the 38th floor of the burning Empire State Building?" Then reality sinks in and, too quickly, he fires five shots at the galloping buck; two of the shots knock down two oak trees, another a pine and the remaining two put neat holes in the clouds above. Unmindful of the racket around him, the buck continues on with his rendezvous with Destiny. Destiny, of course, is the name of the doe.

Back to the real world. After finding an acceptable sign, the next chore is to prepare a "stand" (i.e., the spot from which you will hunt) some distance from the sign. This, of course, applies only to still-hunters. If you are hunting from the ground (and not from trees), it is best to clear all the dead leaves from around your stand so that you will not make noise in changing positions during the long hours wait, i.e., so that you can change, without making noise, from sitting in your stand to standing in your stand (it's nice that the stand wasn't called a sit—we're getting silly again).

... "Became a popular perfume called 'Musk' "

After having prepared it, you must be able to locate your stand in the blackness of the early morning. To do this, you can take a compass bearing from your stand out to the nearest road, and mark the way by blazing a trail on your way out, or by hanging bits of cloth or tape on the trees, until you reach the road.

Another way to find your location is to follow a contour feature that is recognizable at night such as a ridge top or a ravine. It is common to see markers on the roads indicating the

entry points into the forest for the trails leading to the deer stands. These are usually ammo boxes or cans stuck on the ends of branches. It is disconcerting to find another hunter's entry marker near yours. These markers are sometimes shifted 50 to 100 yards down the road to confuse the other guy and keep him away from your stand. Of course if you get caught doing this, a conflict may ensue which might not be in your interest.

In an attempt to mask the human scent, many of us will wear some deer scent on our hunting clothes. A variety of brands are available, each made with ingredients guaranteed to drive a buck out of his skull with desire for you (Yuck!) even at distances of two miles. Some of the scents have a rather pleasant odor, especially if you happen to like the aroma that is given off by a barrel of rotten apples laced with about a dozen old dead rats. Some of the stuff even became a popular perfume recently. It is called "Musk."



Sometimes bizarre encounters take place between the hunters and the animals. I was still-hunting with some friends from ORNL's Chemical Technology Division—Jimmy Bell, Curt Fitzgerald and Arnold Lyle—when we assembled at the truck following an unsuccessful morning's hunt. Curt looked slightly shook up and described what had happened to make him that way: "My stand was near a huge stump, and shortly after I got there, about 5:30 a.m., I heard this deer coming up the hill right toward me. It got so close I could have reached out and touched it with my rifle when it finally stopped. It was too dark to tell if it was a buck or doe; it was just a big dark mass. Suddenly it began to stamp the ground, and prance around and snort and carry on, and it scared me, so I moved around behind the stump. The deer began to circle, prancing and snorting and stamping there in the darkness, and I circle to keep the

stump between us. I'll tell you I was nervous. Finally after a long while the deer lost interest and moved on."

"And that's what shook you up?" I asked, needling him a little.

Catching on to this, he smiled slightly and said "Darn, Hugo, it looked like it was trying to make up its mind as to whether to buck me or romance me, and frankly, I didn't care for either one."

You can imagine the variations on that theme that were composed around the campfire that evening.

When I came home from hunting after the last day of the season and slumped on the sofa, my wife began a typical litany.

"You didn't get a deer?"

"Nope."

"And you got cold?"

"Frozen is more like it."

"And you're going again next year?"

"Yep."

"Why?"

"Well, you know something? That just beats the living heck right out of me."

## Recreationote . . .

Hi Power Rifle League. . .

Y-12's Jack Spurling won the fourth match of the High Power Rifle League with a 487, out of a possible 500. Jack Huff, also of Y-12, came in second with a 479; while Don Kiplinger, ORNL, took a 471 for third place. Other scores were: R. L. Mayton, ORGDP, 419; P. L. Golver, ORNL, 397; E. Hines, ORNL, 389; M. A. Baker, ORNL, 359; and J. F. Pitts, ORNL, 358.

SW Point golf. . .

The team consisting of Lewis-Stone holds the lead in the Southwest Point Golf League, one point over Case-Gretter. Shelton and Morgan place third in league standings.

South Hills golf. . .

(Monday players)

During the early part of June, John Waggoner and E. Hensley hold a one-point lead in green action. Harold Alvey and A. C. Wright are a close second. Laura Walker and Bo Glover challenge in the third spot.

Family Mixed Bowling. . .

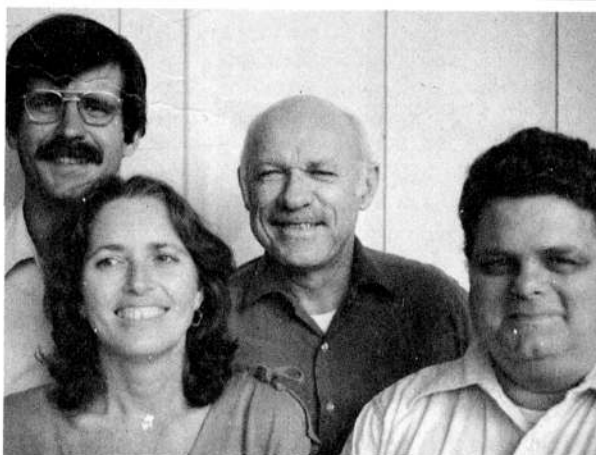
The Oops team took first place as the Carbide Family Mixed League wound down its action, with the Challengers placing second.

Following individual members were honored:

Hi series h'cap -	C. R. Lively.....671
	Janie Sharp.....682
Hi gam h'cap -	Ted Burger.....277
	Arnetha Johnson...275
Most improved	Phil Stone.....11 pins
	Judy McBee.....8 pins
Hi series award -	Janie Sharp.....682

## L'il Abner thespians

DOGPATCH CROWD—Tom Wright, ORNL; Libbie Landers, Y-12; Tom Huffstetter, ORNL; and Bob Broome, ORGDP, are part of the cast of the rousing musical, "L'il Abner" currently playing at the Oak Ridge Playhouse. Performances are at 8:20 p.m. this weekend and next, Thursday, Friday and Saturday, June 22, 23 and 24.





# anniversaries

## ORNL

35 YEARS



Childress



Viar



V. O. Haynes

35 YEARS

William E. Childress, a Janitorial Department labor foreman in the Operations Division, joined E. I. duPont as an ORNL guard on July 5, 1943. He also worked as a desk sergeant before assuming his present position in 1960.

A Knoxville native, Childress resides at Route 2, Powell. He and his wife, Ruth, have two daughters, Nancy Marie and Patsy Sue.

\*\*\*

Charles L. Viar, assistant operations manager of the Oak Ridge Isochronous Cyclotron (ORIC), ORNL Operations Division, joined Tennessee Eastman at Y-12 on July 5, 1943. After working with the process improvement group and the 86-inch cyclotron at Y-12, he came to ORNL with ORIC in 1960.

A native of Rockwood, Viar attended the University of Tennessee. He and his wife, Margaret, a DOE employee, have two sons, Lawrence and Kenneth. The Viars live on Lakeview Drive, Clinton.

30 YEARS

Everett G. Richardson Jr., Physics; Cecil R. Henline, Finance and

Materials; Louie C. Henley, Industrial Safety and Applied Health Physics; Emerson R. Rohrer, Instrumentation and Controls; Charlie A. Culpepper, Solid State; William H. Farmer, Metals and Ceramics; John M. Guinn Jr., Operations; Charles F. Holloway, Engineering; Charles F. Coleman, Chemical Technology; and Richard B. Gallaher Sr., Engineering Technology.

25 YEARS

LeRoy B. Yeatts Jr., Enoch L. Youngblood Jr., Jean W. Bangham, General M. Argo, Sloan Lambdin, Richard D. Cheverton, William N. Drewery Jr., Norman H. Lazar and Ralph F. Apple.

20 YEARS

David R. Vondy, Philip D. Miller Jr., Ross D. Thomas, Herman G. James, Robert E. Cleveland, John A. Rucker and Herman D. Smith.

## ORGDP

35 YEARS



Good

Faye M. Good, a senior payroll clerk in ORGDP's General Accounting Division, joined Union Carbide on July 15, 1943, at South Charleston. After working eight months in the payroll department she transferred to the ORGDP where she was assigned to the payroll department.

Good is a native of Point Pleasant, W. Va., and is married to Joe T. Good a production machinist at Y-12. The Goods live at Route 4, Clinton.

30 YEARS

Charles J. Parks, Vice President-Operations; John A. Cochran, Technical Services.

25 YEARS

Mendle B. Phillips, Donald R. Vanover, Chester A. Culvahouse Jr., Annamae J. Kobisk.

## Y-12 PLANT

181164 35 YEARS 181162



Bender



Garrison

F. Del Bender, Y-12's Product Engineering and Scheduling, is a graduate of the Case Institute, Cleveland, Ohio. Before joining the Manhattan Project June 16, 1943, he was associated with the Tennessee Valley Authority. He lives at 114 Monticello Road, Oak Ridge.

\*\*\*

Nancy A. Garrison, Computer Sciences Division, is a native of Anderson, S.C. A graduate of Winthrop College, Rock Hill, S.C., she joined Tennessee Eastman June 23, 1943. She lives at 408 Villanova Road, Oak Ridge.

30 YEARS

Roy E. Shelton, Alpha Five Assembly; Earl Jarrett, Beta Two Chemistry; Ralph E. Graham, M-Wing Shop; Garland P. McGhee, Alpha Five West Shop; James L. Watkins, Research Services; George W. Oliphant, Maintenance Administration; Earl D. Seagle, Process Maintenance; William R. Carver, Research Services; and George L. Howard, Buildings, Grounds and Maintenance Shops.

25 YEARS

Charles A. Stout Jr., Paul I. Tinnel, George T. Wellborn, Charles Carson, Rufus T. Hill Jr., James W. Jenkins, Earl W. Leach, Floyd W. Kyte and Wayne A. Groppe.

20 YEARS

William O. Gordon, William C. Moisson, Hugh C. Beeson and Kileen W. Gentry.

## Independence Day

Tuesday, July 4, is an official holiday for all Nuclear Division employees, as the nation observes its 202nd birthday. No employee is required to be at work unless his/her presence is required by security or continuous operations.

wanted...



(Continued from page 3)

## ORNL

VAN POOL RIDERS from West Knoxville, I-40, Paper Mill Road exit area, 8:15-4:45. Ray Pearson, plant phone 3-1805, home phone 588-9949.

RIDE OR JOIN CAR POOL from Broadacres Subdivision, Powell, to East Portal, 8-4:30 or 8:15-4:45. Plant phone 3-1261, home phone 947-0670.

CAR POOL OR RIDE from West Hills area, Knoxville, to East Portal, 8-4: 0. Kyle Johnson, home phone 584-6319.

CAR POOL MEMBERS from areas of West Outer, Waddell, Pennsylvania or Hillside, Oak Ridge, to East Portal, 8:15-4:45. Tom Burnett, plant phone 3-6939, home phone 483-1975.

CAR POOL OR RIDE for a summer faculty participant (early June to late August) from vicinity of Pennsylvania Avenue and Outer Drive, Oak Ridge, to East, North or West Portals, straight days. E. Sonder or R. A. Weeks, plant phones 3-1736 and 3-6896, respectively.

WILL JOIN CAR POOL from 237 West Tennessee, Oak Ridge, to East Portal, 8:15-4:45. Dave Williams, plant phone 3-6771, home phone 483-4429.

JOIN OR FORM CARPOOL from Walker Springs Road area, Knoxville, to East Portal, 8-4:30. Bill McAdams, plant phone 3-1805, home phone 690-5097.

## ORGDP

RIDE OR JOIN CAR POOL from Powell area, to Portal 4, 8-4:30. Harvey Vick, plant phone 3-9463, home phone 947-1649.

VAN POOL RIDERS from Cumberland Estates area Knoxville, to Portal 2 or 4, Day Shift. Steve Shipley, plant phone 3-3661, home phone 588-8660.

RIDERS FOR VAN POOL from Rockwood to Portal 2, straight days. Tsrrence Brewster, phone 3-5445, home 354-1615.

JOIN CAR POOL from Norris Freeway area on Raccoon Valley Road to Portal 4, 7:45-4:15. Betty Romines, plant phone 3-3280, home phone Knoxville 922-1686.

## Animals on the reservation. . .



'Three in the Attic?'



## UNION CARBIDE CORPORATION

NUCLEAR DIVISION

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